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1 **Multi-field packet classification using ternary CAM**
van Lunteren, J.; Engbersen, A.P.J.;

Electronics Letters, Volume: 38, Issue: 1, 3 Jan. 2002

Pages:21 - 23

[\[Abstract\]](#) [\[PDF Full-Text \(310 KB\)\]](#) **IEE JNL**
2 **Effective bit selection methods for improving performance of packet classifications on IP routers**
Qin, G.; Ata, S.; Oka, I.; Fujiwara, C.;

Global Telecommunications Conference, 2002. GLOBECOM '02. IEEE, Volume 3, 17-21 Nov. 2002

Pages:2350 - 2354 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(429 KB\)\]](#) **IEEE CNF**
3 **Design of multi-field IPv6 packet classifiers using ternary CAMs**
Nen-Fu Huang; Whai-En Chen; Jiau-Yu Luo; Jun-Min Chen;

Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE, Volume 3, 25-29 Nov. 2001

Pages:1877 - 1881 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(105 KB\)\]](#) **IEEE CNF**
4 **A word/bit parallel inexact match content addressable memory**
Daasch, W.R.; Lee, J.;

ASIC Conference and Exhibit, 1994. Proceedings., Seventh Annual IEEE International, 19-23 Sept. 1994

Pages:25 - 28

L Number	Hits	Search Text	DB	Time stamp
1	4971	711/5,104,108,117,128,150-152,202,216.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:10
2	2876	((translat\$4 or map\$4) same (((bit near2 group) or field or pattern) near5 position))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:15
3	16	711/5,104,108,117,128,150-152,202,216.ccls. and ((translat\$4 or map\$4) same (((bit near2 group) or field or pattern) near5 position))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:18
4	9818	365/49,168,189.02,189.05,201,230.03.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:20
5	4	((translat\$4 or map\$4) same (((bit near2 group) or field or pattern) near5 position)) and 365/49,168,189.02,189.05,201,230.03.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:24
6	5924	370/389,392,475.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:25
7	6	((translat\$4 or map\$4) same (((bit near2 group) or field or pattern) near5 position)) and 370/389,392,475.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:25
-	548	711/220.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:46
-	10	711/220.ccls. and (bit adj group\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 08:26
-	413021	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 09:33
-	77	711/220.ccls. and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:10
-	63	711/220.ccls. and (program adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:13
-	0	711/220.ccls. and (comparand adj register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:14

-	3	711/220.ccls. and ((bit adj group\$1) same position)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:21
-	925	((bit adj group\$1) same position)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:22
-	10740	program adj (circuit\$1 or logic\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:56
-	8	(((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (((bit adj group\$1) same position))) and (program adj (circuit\$1 or logic\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 09:23
-	123	(((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (((bit adj group\$1) same position)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:23
-	27	("3980992" "4558411" "4758985" "4791602" "4791603" "4821183" "4823286" "4992680" "5055712" "5175862" "5185706" "5220213" "5231588" "5250859" "5321845" "5473267" "5594364" "5619668" "5670897" "5670900" "5802541" "6011740" "6049223" "6054871" "6114873" "6160419" "6278289").PN.	DERWENT; IBM_TDB USPAT	2004/01/06 09:39
-	1186	365/49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 12:36
-	2	((((bit adj group\$1) same position)) and 365/49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 12:40
-	9	(program adj (circuit\$1 or logic\$1)) and 365/49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 07:58
-	0	(711/220.ccls. and ((bit adj group\$1) same position)) and 365/49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 12:51
-	394182	((contend adj addressable adj memory) or CAM)or associative adj memory	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:30
-	10	"6006321"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/06 13:15
-	1	6006321.URPN.	USPAT	2004/01/06 13:23
-	0	6351142.URPN.	USPAT	2004/01/06 13:29
-	0	6351142.URPN.	USPAT	2004/01/06 13:29

-	27	("3980992" "4558411" "4758985" "4791602" "4791603" "4821183" "4823286" "4992680" "5055712" "5175862" "5185706" "5220213" "5231588" "5250859" "5321845" "5473267" "5594364" "5619668" "5670897" "5670900" "5802541" "6011740" "6049223" "6054871" "6114873" "6160419" "6278289").PN.	USPAT	2004/01/06 13:30
-	0	6351142.URPN.	USPAT	2004/01/06 13:44
-	143	comparand adj register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 07:58
-	394182	((contend adj addressable adj memory) or CAM)or associative adj memory	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 07:57
-	10740	(program adj (circuit\$1 or logic\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 07:58
-	3	((comparand adj register\$1) and (((contend adj addressable adj memory) or CAM)or associative adj memory)) and ((program adj (circuit\$1 or logic\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 07:59
-	126	(comparand adj register\$1) and (((contend adj addressable adj memory) or CAM)or associative adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 09:36
-	21	"0135691"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 09:38
-	1	047754.apn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:38
-	0	20030135691.URPN.	USPAT	2004/01/07 11:37
-	11	"6181699"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:45
-	20	"6237061"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:53
-	17421	(input nera5 data near5 selection) same CAM	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:55
-	163	comparand near5 register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:56
-	85	((input nera5 data near5 selection) same CAM) and (comparand near5 register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:56

-	80438	program near5 (circuit\$1 or logic\$1 or register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 11:57
-	18	((input nera5 data near5 selection) same CAM) and (comparand near5 register\$1)) and (program near5 (circuit\$1 or logic\$1 or register\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 12:09
-	107	comparand near5 data same register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 13:47
-	8	programmable adj bit adj register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:32
-	394182	((contend adj addressable adj memory) or CAM)or associative adj memory	USPAT; US-PGPUB; EPO; JPO;	2004/01/07 14:30
-	1781	programmable adj register	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:33
-	92	((contend adj addressable adj memory) or CAM)or associative adj memory) and (programmable adj register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:33
-	5411	translation near5 (circuit\$1 or logic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:33
-	0	((contend adj addressable adj memory) or CAM)or associative adj memory) and (programmable adj register)) and (translation near5 (circuit\$1 or logic))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:35
-	5	(comparand near5 data same register\$1) and (((contend adj addressable adj memory) or CAM)or associative adj memory) and (programmable adj register))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:35
-	1	(programmable adj bit adj register) and ((contend adj addressable adj memory) or CAM)or associative adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:42
-	79	packet near5 translation near5 (circuit\$1 or logic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:52
-	2	((contend adj addressable adj memory) or CAM)or associative adj memory) and (packet near5 translation near5 (circuit\$1 or logic))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:17

-	9082	packet adj header	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 14:52
-	58	(packet adj header\$1) same (comparand\$1 or search near3 key)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/17 12:07
-	36	((search adj key) or comparand) near5 data near5 (selection or generation or extraction or creation or translation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 17:25
-	2	comparand near5 data near5 (selection or generation or extraction or creation or translation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 17:26
-	163	comparand near5 register	USPAT; US-PGPUB; EPO; JPO;	2004/01/07 17:27
-	37	(comparand near5 register) and programming	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:12
-	130	711/214.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/07 17:38
-	4990	370/392	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 13:24
-	647	370/392 and translation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:21
-	243	(370/392 and translation) and (comparand or key)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:22
-	413200	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:32
-	36	((370/392 and translation) and (comparand or key)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:46
-	5119	bit near5 programming	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:47

-	10	370/392 and (bit near5 programming)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:53
-	0	350/351.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/08 13:53
-	5416	translation near5 (circuit\$1 or logic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:37
-	442	address near5 translation adj (circuit\$1 or logic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:38
-	163	comparand near5 register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:46
-	5	(address near5 translation adj (circuit\$1 or logic)) and (comparand near5 register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:50
-	10	(translation near5 (circuit\$1 or logic)) and (comparand near5 register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:50
-	3032	370/392.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 12:58
-	7	(address near5 translation adj (circuit\$1 or logic)) and 370/392.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:45
-	3	370/392.ccls. and (comparand adj register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 13:16
-	3032	370/392.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 13:24
-	51	370/392.ccls. and ((comparand or index or key) near5 register)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:02
-	2	"09166707"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:10

-	7	166707.ap.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:04
-	130422	header near5 key (generation or extraction or selection) near5 circuit\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:58
-	57396	bit near5 (position\$3 or rank\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:13
-	6062	(header near5 key (generation or extraction or selection) near5 circuit\$1) and (bit near5 (position\$3 or rank\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:14
-	243565	program\$4 near5 (circuit or logic or register or memory)	USPAT; US-PGPUB; EPO; JPO;	2004/01/09 15:16
-	2293	((header near5 key (generation or extraction or selection) near5 circuit\$1) and (bit near5 (position\$3 or rank\$3))) and (program\$4 near5 (circuit or logic or register or memory))	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:16
-	394332	((contend adj addressable adj memory) or CAM)or associative adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:17
-	256	((((header near5 key (generation or extraction or selection) near5 circuit\$1) and (bit near5 (position\$3 or rank\$3))) and (program\$4 near5 (circuit or logic or register or memory))) and (((contend adj addressable adj memory) or CAM)or associative adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:18
-	23888	bit near5 program\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:18
-	110	(((((header near5 key (generation or extraction or selection) near5 circuit\$1) and (bit near5 (position\$3 or rank\$3))) and (program\$4 near5 (circuit or logic or register or memory))) and (((contend adj addressable adj memory) or CAM)or associative adj memory))) and (bit near5 program\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:18
-	2424338	select or switch or mux or multiplex\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:19
-	110	(((((header near5 key (generation or extraction or selection) near5 circuit\$1) and (bit near5 (position\$3 or rank\$3))) and (program\$4 near5 (circuit or logic or register or memory))) and (((contend adj addressable adj memory) or CAM)or associative adj memory))) and (bit near5 program\$4)) and (select or switch or mux or multiplex\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 15:20
-	392	bit near5 level near5 representation near5 bit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:01

-	87	(bit near5 level near5 representation near5 bit) and header\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:11
-	1749	370/389.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:12
-	10996	address near5 translation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:12
-	141	370/389.ccls. and (address near5 translation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:12
-	23888	bit near5 program\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:13
-	7	(370/389.ccls. and (address near5 translation)) and (bit near5 program\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:20
-	907	370/474.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:26
-	42	370/474.ccls. and bit near5 program\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:31
-	50	(((((contend adj addressable adj memory) or CAM)or associative adj memory)) and 370/474.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:42
-	1	370/474.ccls. and (address adj translation adj circuit)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:45
-	250	address adj translation adj circuit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:45
-	38	(address adj translation adj circuit) and (((contend adj addressable adj memory) or CAM)or associative adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:55
-	6	(address adj translation adj circuit) and (packet near5 switching)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 16:59

-	2680	header near5 (bit\$1group or segment\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 17:01
-	287	(header near5 (bit\$1group or segment\$5)) and (bit near5 pattern\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 17:02
-	25	(((((contend adj addressable adj memory) or CAM) or associative adj memory)) and ((header near5 (bit\$1group or segment\$5)) and (bit near5 pattern\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 17:02
-	2	"6453358"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/09 17:07
-	143	comparand adj register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:18
-	36633	(translation or extraction or map\$4)near5 (address or key\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:19
-	34	(comparand adj register) and ((translation or extraction or map\$4)near5 (address or key\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:20
-	25	((comparand adj register) and ((translation or extraction or map\$4)near5 (address or key\$1))) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:20
-	12	((((comparand adj register) and ((translation or extraction or map\$4)near5 (address or key\$1))) and cam) and (control near5 circuit\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:33
-	3	"6351142"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:33
-	0	6531888.URPN.	USPAT	2004/01/11 12:34
-	27	("3980992" "4558411" "4758985" "4791602" "4791603" "4821183" "4823286" "4992680" "5055712" "5175862" "5185706" "5220213" "5231588" "5250859" "5321845" "5473267" "5594364" "5619668" "5670897" "5670900" "5802541" "6011740" "6049223" "6054871" "6114873" "6160419" "6278289").PN.	USPAT	2004/01/11 12:34
-	1	(comparand near5 register) near5 (translation or extraction or map\$4) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:47
-	1	(comparand near5 register) near5 (translation or extraction or map\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 12:48

-	10	((comparand near5 register) and cam) and (bit near5 pattern)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:52
-	117	(comparand near5 register) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:13
-	5763	((comparand near5 register) and cam) (header same key)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:14
-	4	((comparand near5 register) and cam) and (header same key)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:14
-	12	"5438535"	USPAT; US-PGPUB; EPO; JPO;	2004/01/11 14:21
-	59	((comparand near5 register) and cam) and router\$1	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:21
-	3	"6351142"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 14:57
-	776	address adj (translation or extraction or map\$4 or select\$4) same header	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 15:00
-	163	comparand near5 register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 15:00
-	5	(address adj (translation or extraction or map\$4 or select\$4) same header) and (comparand near5 register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:18
-	760	address near5 translation near5 circuit\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:00
-	1	(comparand near5 register\$1) and (address near5 translation near5 circuit\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:07
-	15	"0222779"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:07
-	0	676698.URPN.	USPAT	2004/01/11 16:08

-	39431	bit near5 pattern\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:18
-	24	(comparand near5 register\$1) and (bit near5 pattern\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:20
-	117	(comparand near5 register\$1) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/11 16:21
-	26	((comparand near5 register\$1) and cam) and (header near5 (key or field or bit\$2pattern\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/03 10:06
-	12970	((network adj interface adj (CARD or device)) or NIC) or (router adj blade))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 07:57
-	143	comparand adj register\$\$1	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 07:58
-	1	((network adj interface adj (CARD or device)) or NIC) or (router adj blade))) and (comparand adj register\$\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:04
-	421	((network adj interface adj (CARD or device)) or NIC) or (router adj blade))) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:04
-	5	((network adj interface adj (CARD or device)) or NIC) or (router adj blade))) and cam) and comparand	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:07
-	9153	(network adj interface) near5 (ic or device or circuit\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:09
-	335	((network adj interface) near5 (ic or device or circuit\$1)) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:09
-	8	((network adj interface) near5 (ic or device or circuit\$1)) and cam) and comparand	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 08:09
-	627	cam adj array	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 16:13

-	163	comparand near5 register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 16:14
-	80	(cam adj array) and (comparand near5 register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 16:18
-	21	((cam adj array) and (comparand near5 register\$1)) and program\$4 near5 (circuits or logic or register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/12 16:19
-	12272	cam near5 block\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/14 12:10
-	1914	cam adj block\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/14 12:10
-	16	((cam adj block\$1) and (cam adj array\$1)) and (comparand adj register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:22
-	2	5438535.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/19 13:13
-	214814	(storage or register or flip\$3flop\$3 or latch\$1) same address\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:24
-	95946	decod\$3 same address\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:25
-	217728	(storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:24
-	5137	(demux\$3 demultiplex\$3) same address\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:26
-	748	(cross\$3bar near5 switch) same address\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:27
-	30	(decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 18:37

-	413678	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/20 11:59
-	22	((decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 09:19
-	22451	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:33
-	712	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:35
-	6	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and demux	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:36
-	54	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and (demux\$3 or demultip\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:36
-	5	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and (demux\$3 or demultip\$5) and (cross\$3bar)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:48
-	7	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and (cam adj block\$1) and (translat\$4 or map\$3 or filter\$3 or extract\$3 or rearrang\$5) near3 circuit\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 08:52
-	62	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and (cam adj block\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 09:05
-	62	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory) with block\$1 and (comparand or (input adj data) or key or search) same register\$1) and (cam adj blocks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 09:28
-	74	plurality near5 (cam adj blocks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 09:38
-	673	CAM and (demux\$3 or demultip\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 18:45
-	46	(CAM and (demux\$3 or demultip\$5)) and cross\$3bar	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 18:51

-	3	((CAM and (demux\$3 or demultiplex\$5)) and cross\$3bar) and comparand	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 18:51
-	22	((decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 09:27
-	11	((decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))) and cam	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 09:25
-	22	((decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) same address	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 09:33
-	413917	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:16
-	22	((decod\$3 same address\$3) and ((storage or register or flip\$3flop\$3 or latch\$1 or fifo) same address\$4) and ((demux\$3 demultiplex\$3) same address\$3) and ((cross\$3bar near5 switch) same address\$3)) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:08
-	1642	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:09
-	1401	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address translat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:11
-	64	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address translat\$4)) and (crossbar near5 switch)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:11
-	238	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address same translat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:12
-	35	((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address same translat\$4 same storage)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:17
-	391378	((contend adj addressable adj memory) or CAM)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:16

-	649	(((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (((contend adj addressable adj memory) or CAM))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:16
-	500	((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address translat\$4)) and (((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (((contend adj addressable adj memory) or CAM)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:16
-	11	((((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (address translat\$4)) and (((((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3)) and (((contend adj addressable adj memory) or CAM)))) and (address same translat\$4 same storage)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:19
-	265	(((contend adj addressable adj memory) or CAM)) and comparand	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:19
-	12	(((contend adj addressable adj memory) or CAM)) and comparand) and (((contend adj addressable adj memory) or CAM) or (associat\$3 adj memory)) and (demux\$2 or demultiplex\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 10:20
-	67	(cam adj block\$1) and (cam adj array\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 17:31
-	2	5920886.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/24 11:19
-	0	20030005146.apn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/26 15:43
-	2	"20030005146"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/26 15:43
-	0	20030189932.apn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/17 12:08
-	2	20030189932.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/17 12:08